EMS-HAP Version 2.0 (Emissions Modeling System for Hazardous Air Pollutants Version 2.0):

EMS-HAP is written in the SAS® programming language and is designed to run on any UNIX® workstation.. You will need a SAS® license and some knowledge of SAS® to use this program.

EMS-HAP is an emission processor that performs the steps needed to process an emission inventory containing toxics air pollutants (such as the July 2001 version of the 1996 National Toxics Inventory) for input into either the ASPEN (Assessment System for Population Exposure Nationwide) or ISCST3 (Industrial Source Complex Short Term Version 3) air quality models.

These steps include:

- spatial allocation of emissions reported at the county-level (e.g., mobile and non-point source emissions) to census tracts (for ASPEN) or grid cells (for ISCST3).
- temporal allocation of annual emission rates to annually-averaged 3-hour emission rates (for ASPEN) or hourly rates accounting for seasonal and day-type variation (ISCST3).
- optional projection of stationary source emissions to future years accounting for activity growth and reductions resulting from emission reduction scenarios such as the Maximum Achievable Control Technology (MACT) standards.

If you are running EMS-HAP to process emissions for ISCST3, you will need to define a domain and develop gridded surrogates for your domain which will require the use of a geographic information system.